DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

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Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-003270
Date Inspected: 08-May-2011

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 700
OSM Departure Time: 1900
Location: Changxing Dao, Shangha

Quality Control Contact: Don Walton
Quality Control Present: ☑ Yes ☐ No
Material transfer: ☐ Yes ☐ No ☑ N/A
Sampled Items: ☐ Yes ☐ No ☑ N/A
Stock Transfer: ☐ Yes ☐ No ☑ N/A
OK to Cut: ☐ Yes ☐ No ☑ N/A
Rebar Test Witness: ☐ Yes ☐ No ☑ N/A
Delayed/Cancelled: ☐ Yes ☑ No ☐ N/A
Other: Coatings Inspection
Bridge No: 34-0006
Component: Sub-Assemblies (OBG) and Sub-Assemblies (
Bid Item: 77,78,79
Lot No:

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

Galvanized Traveler Rails (12 Each), NOI Number 6529: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Galvanized Traveler Rails (12 Each) for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects (pin holes) in applied coating.

Switch Cabinet and Accessories (13 Each), NOI Number 6530: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Switch Cabinet and Accessories (13 Each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices WJSH-0 (2 Each), Miscellaneous Splices (7 Each) and Flumes (4 Each), NOI Number 6535: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices WJSH-0 (2 Each), Miscellaneous Splices (7 Each) and Flumes (4 Each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed

ZPMC to proceed with process to the next check point.

Bike Path Panel BK8A-001, NOI Number 6536: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Bike Path Panel BK8A-001 for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects (pin holes) in applied coating.

Bike Path Panels (3 Each) and Emergency Access Platform BK-EAP-7, NOI Number 6537: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation Bike Path Panels (3 Each) and Emergency Access Platform BK-EAP-7. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to defects (mud cracking) found in undercoat.

Man Hole Cover Plates (8 Each), L-Splices (4 Each), BK Bracket Cover Plates (2 Each), Shim Plates (9 Each), Bike Path Brackets (2 Each), Channels (6 Each), Shim Plates (4 Each), Breakwater (17 Each), Suspender Brackets (2 Each) and West Anchor Plates (4 Each), NOI Number 6538: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Man Hole Cover Plates (8 Each), L-Splices (4 Each), BK Bracket Cover Plates (2 Each), Shim Plates (9 Each), Bike Path Brackets (2 Each), Channels (6 Each), Shim Plates (4 Each), Breakwater (17 Each), Suspender Brackets (2 Each) and West Anchor Plates (4 Each). Test results recorded x3 surface profile readings in the range of 61 to 68 µm and x1 soluble salts reading of 16.5 (µs/cm). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to additional required grinding and re-blasting.

Flumes (12 Each), NOI Number 6539: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Flumes (12 Each). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to additional required grinding and re-blasting.

Traveler Rails (8 Each), NOI Number 6540: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Traveler Rails (8 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness) and SSPC-PA 2 Dry Film Thickness (DFT). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to high DFT readings.

Man Hole Cover Plates (8 Each), L-Splices (4 Each), BK Bracket Cover Plates (2 Each), Shim Plates (9 Each), Bike Path Brackets (2 Each), Channels (6 Each), Shim Plates (4 Each), Breakwater (17 Each), Suspender Brackets (2 Each) and West Anchor Plates (4 Each), NOI Number 6542: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Man Hole Cover Plates (8 Each), L-Splices (4 Each), BK Bracket Cover Plates (2 Each), Shim Plates (9 Each), Bike Path Brackets (2 Each), Channels (6 Each), Shim Plates (4 Each), Breakwater (17 Each), Suspender Brackets (2 Each) and West Anchor Plates (4 Each). No major

discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Flumes (12 Each), NOI Number 6543: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Flumes (12 Each). No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Sub-Assemblies (Tower)

Miscellaneous Sub-assemblies Plates (240 Each), Skirt Plate Components SD1-A582 and ED1-A146, NOI Number T2132: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Miscellaneous Sub-assemblies Plates (240 Each), Skirt Plate Components SD1-A582 and ED1-A146. Test results recorded x3 surface profile readings in the range of 66 to 76 µm. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Tower Head Curved Diaphragm Top DPSA6-5, NOI Number T2133: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Tower Head Curved Diaphragm Top DPSA6-5. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Galvanized Man Hole Doors for Tower Heads (4 Each), NOI Number T2134: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Galvanized Man Hole Doors for Tower Heads (4 Each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

This Quality Assurance Inspector (QA) reviewed, recorded and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

SOURCE INSPECTION REPORT

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Inspected By:	Cason,Kenneth	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer